

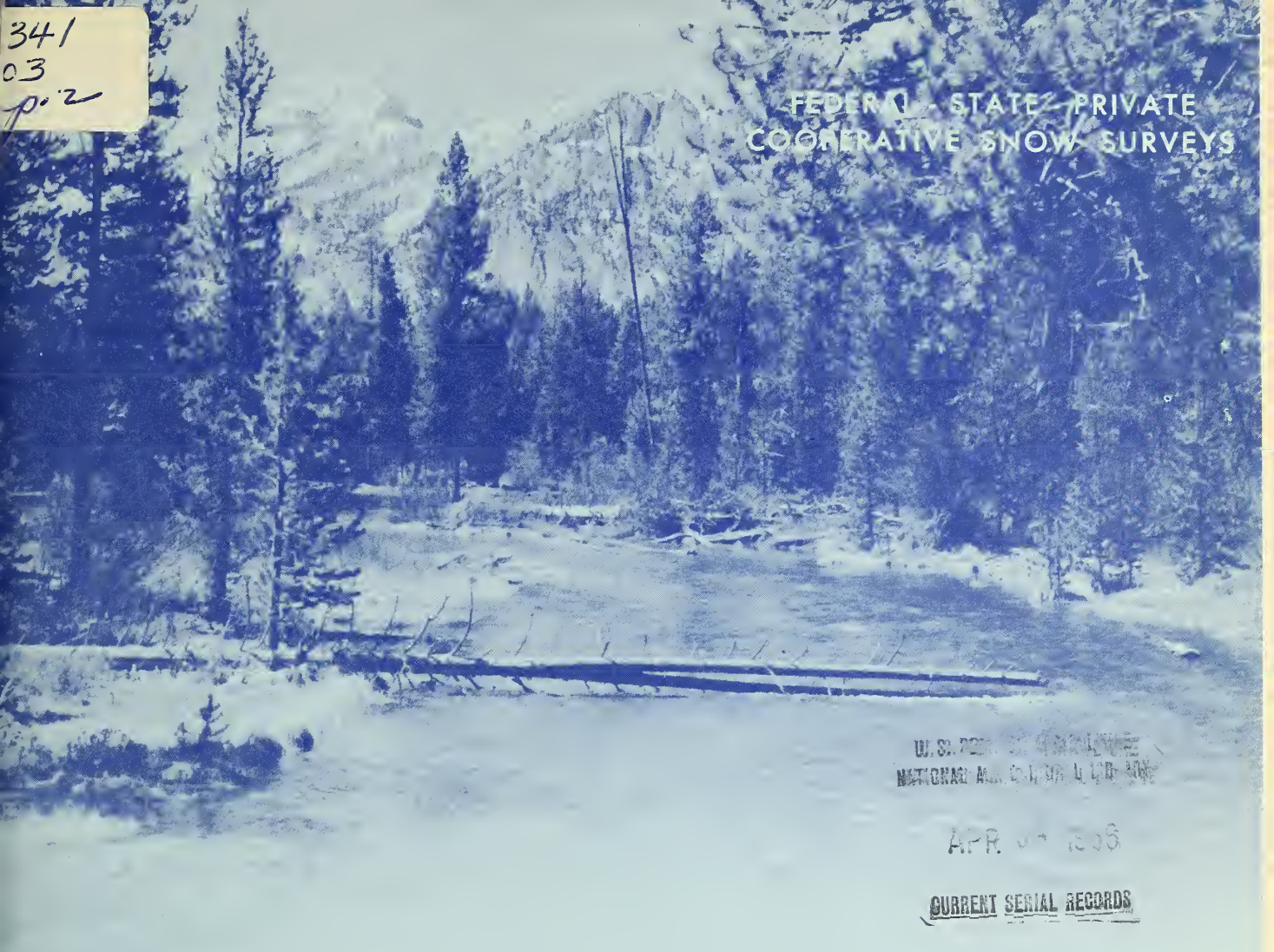
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FEDERAL - STATE - PRIVATE
COOPERATIVE SNOW SURVEYS



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CURRENT SERIAL RECORDS

WATER SUPPLY OUTLOOK and FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS for WYOMING

UNITED STATES DEPARTMENT of AGRICULTURE--SOIL CONSERVATION SERVICE,
and
STATE ENGINEER of WYOMING

Data included in this report were obtained by the agencies named above in cooperation with the Bureau of Reclamation, U.S. Forest Service, National Park Service, and other Federal, State and private organizations.

AS OF
MAR. 1, 1966

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

To Recipients of Water Supply Outlook Reports:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season as they affect runoff will add to be an effective average. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

Listed below are water supply outlook reports based on Federal-State-Private Cooperative snow surveys. Those published by the Soil Conservation Service may be obtained from Soil Conservation Service, Room 507, Federal Building, 701 N. W. Glisan, Portland, Oregon 97209.

PUBLISHED BY SOIL CONSERVATION SERVICE

<u>REPORTS</u>	<u>ISSUED</u>	<u>LOCATION</u>	<u>COOPERATING WITH</u>
RIVER BASINS			
WESTERN UNITED STATES	MONTHLY (FEB.-MAY)	PORTLAND, OREGON	ALL COOPERATORS
BASIC DATA SUMMARY	OCTOBER 1	PORTLAND, OREGON	ALL COOPERATORS
STATES			
ALASKA	MONTHLY (MAR.-MAY)	PALMER, ALASKA	ALASKA S.C.D.
ARIZONA	SEMI-MONTHLY (JAN. 15 - APR. 1)	PHOENIX, ARIZONA	SALT R. VALLEY WATER USERS ASSOC. ARIZ. AGR. EXP. STATION
COLORADO AND NEW MEXICO	MONTHLY (FEB.-MAY)	FORT COLLINS, COLORADO	COLO. STATE UNIVERSITY COLO. STATE ENGINEER N. MEX. STATE ENGINEER
IDAHO	MONTHLY (JAN.-JUNE)	BOISE, IDAHO	IDAHO STATE RECLAMATION ENGINEER
MONTANA	MONTHLY (JAN.-JUNE)	BOZEMAN, MONTANA	MONT. AGR. EXP. STATION
NEVADA	MONTHLY (JAN.-MAY)	RENO, NEVADA	NEVADA DEPT. OF CONSERVATION AND NATURAL RESOURCES - DIVISION OF WATER RESOURCES
OREGON	MONTHLY (JAN.-JUNE)	PORTLAND, OREGON	OREG. STATE UNIVERSITY OREGON STATE ENGINEER
UTAH	MONTHLY (JAN.-JUNE)	SALT LAKE CITY, UTAH	UTAH STATE ENGINEER
WASHINGTON	MONTHLY (FEB.-JUNE)	SPOKANE, WASHINGTON	WN. STATE DEPT. OF CONSERVATION
WYOMING	MONTHLY (FEB.-JUNE)	CASPER, WYOMING	WYOMING STATE ENGINEER

PUBLISHED BY OTHER AGENCIES

<u>REPORTS</u>	<u>ISSUED</u>	<u>AGENCY</u>
BRITISH COLUMBIA	MONTHLY (FEB.-JUNE)	WATER RESOURCES SERVICE, DEPT. OF LANDS, FOREST AND WATER RESOURCES, PARLIAMENT BLDG., VICTORIA, B.C., CANADA
CALIFORNIA	MONTHLY (FEB.-MAY)	CALIF. DEPT. OF WATER RESOURCES, P.O. BOX 388, SACRAMENTO, CALIF.

FEDERAL-STATE-COOPERATIVE
SNOW SURVEYS AND WATER FORECASTS
FOR
WYOMING

Issued
March 1, 1966

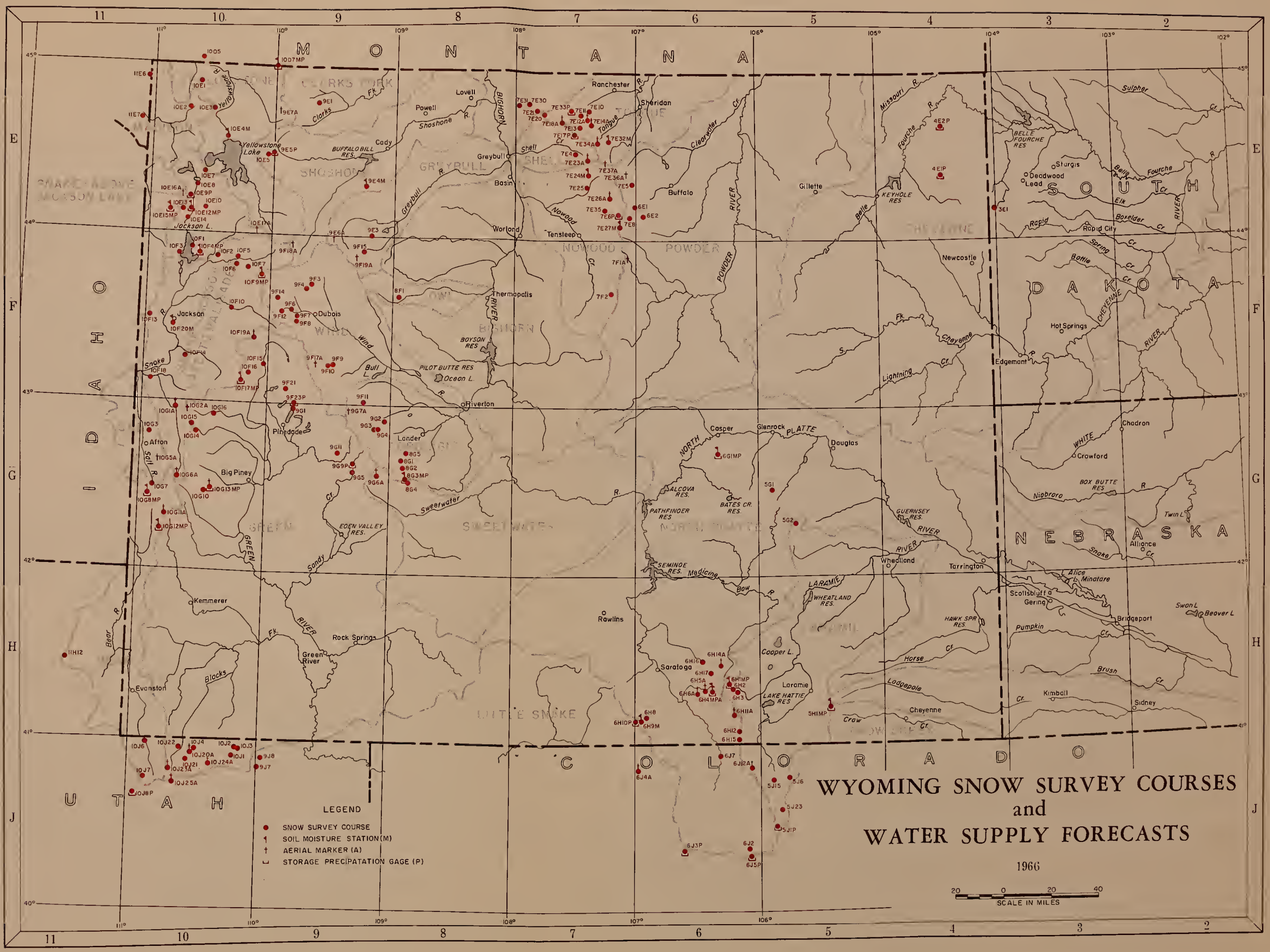
Report Prepared
by
George W. Peak
Snow Survey Supervisor
and
Tommy A. George
Assistant Snow Survey Supervisor
State of Wyoming

Soil Conservation Service
345 $\frac{1}{2}$ East 2nd Street
P. O. Box 340
Casper, Wyoming 82601

Issued by

B. H. Hopkins
State Conservationist
Soil Conservation Service
Casper, Wyoming

Floyd Bishop
State Engineer of Wyoming
Capitol Building
Cheyenne, Wyoming



WYOMING SNOW SURVEY COURSES and WATER SUPPLY FORECASTS

1966

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SCALE IN MILES

INDEX TO WYOMING SNOW COURSES

MISSOURI RIVER DRAINAGE										MISSOURI RIVER DRAINAGE										COLORADO RIVER DRAINAGE									
Green River above Green River										Green River below Green River										Columbia River Drainage									
Snoke River Basin (Above Jackson Lake)										Jackson Lake to Palisades										Cheyenne River									
DRAINAGE BASIN AND COURSE NAME	WYOMING NUMBER	ELEV.	SEC.	TWP.	RANGE	RECORD BEGAN	MEAS. DATES	MEAS. BY	ORAINAGE BASIN AND COURSE NAME	WYOMING NUMBER	ELEV.	SEC.	TWP.	RANGE	RECORD BEGAN	MEAS. DATES	MEAS. BY	ORAINAGE BASIN AND COURSE NAME	WYOMING NUMBER	ELEV.	SEC.	TWP.	RANGE	RECORD BEGAN	MEAS. DATES	MEAS. BY			
MISSOURI RIVER DRAINAGE										MISSOURI RIVER DRAINAGE										COLORADO RIVER DRAINAGE									
Modison River										Porcupine Creek										Green River above Green River									
Norris Basin	10E2	7500	44° 44'	110° 42'	1936	2,3,4,5,	2		Five Springs Falls	7E31	7500	19	56N	92W	1956	2,3,4,5	1		Big Sandy Opening	9G9P	9220	17	31N	104W	1961	2,3,4,5	1,4		
21 Mile m	11E6	7150	1	11S	5E	1934	1,2,3,4,5	1	Medicine Wheel	7E30	9000	24	56N	92W	1956	2,3,4,5	1,6		Blind Bull Summit	10G2A	8750	6	34N	115W	1942	2,3,4	1		
West Yellowstone m	11E7	6700	3/4	13S	5E	1934	1,2,3,4,5	1											Dutch Joe R.S.	9G5	8700	32	31N	104W	1936	2,3,4,5	1,4		
Yellowstone										Tangue River										Green River below Green River									
Canyon	10E3	7750	44° 44'	110° 30'	1938	1,2,3,4,5	1		Beaver-Tongue Divide	7E20	9200	12	55N	91W	1956	2,3,4,5	1,6		East Rim Divide #2	10F17MP	7950	32	37N	111W	1936	1,2,3,4,5	1,4		
Crevice Mountain m	1D5	8400	22	9S	9E	1935	3,4	4											Elk Heart Park G.S.	9F23P	9400	16	35N	103W	1961	2,3,4,5	1,4		
East Entrance	9E5MP	7000	44° 29'	110° 00'	1948	1,2,3,4,5	2		Big Goose #2	7E32M	7700	4	53N	86W	1955	2,3,4,5	1,6		Gros Ventre	10F19A	8750	36	40N	111W	1942	2,3,4,5	1,4		
Lake Camp #2	10E4M	7850	44° 34'	110° 24'	1937	1,2,3,4,5	1		Bone Spring Divide	7E18A	9200	32	55N	89W	1956	2,3,4,5	1,6		Kendall R.S. #2	10F15	7900	23	32N	110W	1961	2,3,4,5	1,4		
Lupine Creek	10E1	7300	44° 54'	110° 37'	1938	1,2,3,4,5	2		Burgess R.S. #2	7E33P	7900	36	56N	89W	1955	2,3,4,5	1,6		Loomis Park #2	10F16	8500	14	37N	111W	1960	2,3,4,5	1,4		
Northeast Entrance	10D7MP	7400	33	9S	14E	1937	1,2,3,4,5	2	Dome Lake #2	7E34A	8800	11	53N	87W	1950	2,3,4,5	1,6		Mulligan Park	9G1	8900	28	35N	108W	1936	2,3,4,5	1,4		
Parker's Peak	9E7	9400	44° 41'	109° 56'	1965	2,3,4	1		Geneva Pass	7E37A	10600	30	52N	86W	1961	2,3,4,5	1		New Fork Lake	9F21	8325	11	36N	109W	1961	2,3,4,5	1,4		
Pitchstone	10E16	8440	44° 14'	110° 42'	1905	2,3,4	1		Gloom Creek	7E44A	9300	32	55N	87W	1956	2,3,4,5	1,6		North Horse Creek	10G16	8200	12	34N	114W	1961	2,3,4,5	1,4		
Thumb Divide	10E7	7900	44° 22'	110° 35'	1946	2,3,4	5		Granite Pass	7E17P	8950	19	54N	88W	1956	2,3,4,5	1,6		Piney LaBarge #2	10G10	8820	19	29N	114W	1959	2,3,4,5	1,4		
Two Ocean Plateau	10E17	9200	44° 08'	110° 14'	1965	2,3,4	1		Sibley Lake	7E11	8000	10	53N	87W	1956	2,3,4,5	1,6		Pocket Creek	9G11	9360	19	32N	105W	1961	2,3,4,5	1,4		
Sylvan Pass	10E5	7100	44° 28'	110° 02'	1936	1,2,3,4,5	2		Steamboat Point	7E10	7500	32	56N	87W	1956	2,3,4,5	1,6		Poison Meadows	10G6A	8500	29	30N	116W	1942	2,3,4,5	1,4		
									Sucker Creek	7E12A	9000	19	55N	87W	1956	2,3,4,5	1,6		Snyder Basin R.S. #2	10G13MP	8040	15	29N	114W	1956	2,3,4,5	1,4		

4. Numerals 1,2,3,4 and 5 refer to January 1, February 1, March 1, April 1, and May 1.

6. Numerals refer to Agency that secures the snow survey, as follows:

1. Soil Conservation Service.	c. Colorado snow courses.
2. U. S. National Park Service.	m. Montana snow courses.
3. U. S. Indian Service.	sd. South Dakota snow courses.
4. U. S. Forest Service.	u. Utah snow courses.
5. U. S. Bureau of Reclamation.	A. Aerial Snow Depth Gage
6. Wyoming State Engineer.	M. Soil Moisture Stack

WATER SUPPLY OUTLOOK

FOR

WYOMING

*
* Less than normal precipitation during February has reduced still further *
* the stream flow outlook for the ensuing summer. With the exception of the *
* watershed from Casper Mountain to Laramie Peak, snow storage in the Wyoming *
* watersheds is substantially less than the average depth for March 1. *
*
* The runoff forecasts for the State range from 55 percent of normal for the *
* Big Horn Mountains, to 100 percent in the extreme western part of the State. *
*
* These predictions are based on the assumption that for the balance of the *
* season, the storm pattern and snowpack evaporation will be close to normal. *
*
* Carry over storage is excellent. Total active contents are 130 percent of *
* the average amount for March 1, with the North Platte reservoir system at *
* exactly normal, or 100 percent. *
*

The anticipated summer water supplies, by river basins, are as follows:

THE NORTH PLATTE - The April 1 to September 30 runoff is forecast at 62 percent of average at Northgate, Colorado; a yield of 88 percent from the Encampment River watershed; and 80 percent from the Snowies, for a discharge of 73 percent, or 483,000 acre feet at Saratoga, Wyoming.

The Laramie River watershed, measured at Jelm, Wyoming, is expected to release 80 percent of the average runoff.

THE COLORADO RIVER is down to a computed runoff of 91 percent at Warren Bridge. North Piney is expected to discharge 75 percent; the New Fork will release 71 percent at Boulder, Wyoming. Big and Little Sandy Creeks are standing at 73 percent of normal. The combined flow at Green River, Wyoming, will be 725,000 acre feet or 75 percent of average.

THE LOWER YELLOWSTONE BASIN snow surveys indicate a seasonal runoff of 65 percent for the Wind River at Dubois; 79 percent into Bull Lake; 75 percent from the North Popo Agie watershed, and 74 percent out of the Little Popo Agie. Bull Lake Reservoir contents are two-thirds of capacity and 160 percent of normal. Boysen Reservoir is 145 percent of the average contents for March 1. From the west flank of the Big Horns, seriously less than average flows are expected.

The Shoshone River inflow to Buffalo Bill Reservoir will be 565,000 acre feet or 70 percent of normal. Current storage is 270,000 acre feet, or 187 percent of normal. Combined storage and runoff will be 88 percent of the average summer supply.

THE COLUMBIA RIVER BASIN WATERSHED in Wyoming will discharge 88 percent into Jackson Lake; the Palisades Reservoir will receive 87 percent from the Snake River, 78 percent from the Grey's River, and 88 percent from the Salt River. Total runoff and storage supplies at the State line are expected to be 3,878,000 acre feet of water.

THE BEAR RIVER DRAINAGE - The Smiths Fork watershed is expected to yield close to average supplies for the summer. The forecast is for 113,000 acre feet of water which is 101 percent of average. The Thomas Fork is close to average with 30,000 acre feet expected.



WYOMING STREAM-FLOW FORECASTS, MARCH 1966

BASIN AND TRIBUTARY	April 1 - September 30			
	Seasonal Stream-Flow in Thousands of Acre Feet			
	Forecast	% 15-Year	Measured	Runoff
	Runoff	Average	1964	15-Yr. Avg. 1948-62
CLARK'S FORK Chance (at)	520	89%	602	586
MADISON RIVER West Yellowstone (near)	200	96%	216	218
YELLOWSTONE RIVER Yellowstone Lake Outlet (at)	590	74%	942	793
LITTLE POPO AGIE Lander (near)	31	74%	45	42
BULL LAKE CREEK Lenore (near)	140	79%	175	177
WIND RIVER Dubois (near)	65	65%	113	100
TENSLEEP CREEK Tensleep (near)	39	54%	79	72
MEDICINE LODGE CREEK Hyattville (near)	5.8	32%	31	18.2
SHELL CREEK Shell (near)	36	57%	91	63
SHOSHONE RIVER Buffalo Bill Dam(below)(1)	565	70%	845	805
LARAMIE RIVER Jelm (near) (2)	90	80%	100	112
ENCAMPMENT RIVER Encampment (near)	124	88%	130	141
NORTH PLATTE RIVER Northgate (near)	162	62%	154	260
Saratoga (at)	470	73%	483	641
MEDICINE BOW RIVER Hanna (near)	67	80%	134	84
DEER CREEK (Mar.-July) Glenrock (at)	31	134%	60.2	23.2



WYOMING STREAM-FLOW FORECASTS, MARCH 1966

BASIN AND TRIBUTARY	April 1 - September 30			
	Seasonal Stream-Flow in Thousands of Acre Feet			
	Forecast	% 15-Year	Measured	Runoff
	Runoff	Average	1964	15-Yr. Avg. 1948-62
GREEN RIVER				
Warren Bridge (at)	298	91%	349	326
**LaBarge (near)	680	74%	1009	920
Green River (at)	725	75%	989	970*
LITTLE SNAKE				
Dixon (near)	235	80%	325	295
NORTH PINEY CREEK				
Mason (at)	28	75%	27	38
NEW FORK RIVER				
Boulder (near)	162	71%	249	228
BIG SANDY CREEK				
Big Sandy (near)	38	73%	53	52
LITTLE SANDY CREEK				
Elkhorn (near)	9.5	73%	13	13
SNAKE RIVER				
Moran (at) (3)	760	88%	861	865
Palisades (above)	2270	87%	2694	2600
PACIFIC CREEK				
Moran (near)	145	85%	173	170
GREYS RIVER				
Palisades (above)	300	78%	392	383*
SWIFT CREEK				
Afton (near)	44	92%	52	48
SALT RIVER				
Etna ab. Palisades	290	88%	444	331*
SMITHS FORK				
Border (near)	113	101%	123	112
THOMAS FORK				
State Line (near)	30	100%	38	30

All stream data taken from observed flow record with the following exceptions:

- (1) Observed flow corrected for Buffalo Bill storage and Heart Mountain diversion.
- (2) Observed flow corrected for Transbasin Diversions.
- (3) Observed flow corrected for Jackson Lake Storage.

* Includes some estimated flows.

** USGS anticipates no change in the volume of flow in the old station, Green River near Fontenelle, and the new station at LaBarge.

WYOMING SNOW SURVEYS - ABOUT MARCH 1, 1966

Drainage Basin and Snow Course	Number or State	Elev.	SNOW COVER MEASUREMENTS					
			Date of Survey	1966	Water Content (In.)	PAST RECORD		
				Snow Depth (In.)		Water Content (In.)		1948-62 Average
						1965	1964	
<u>MADISON RIVER - YELLOWSTONE PARK</u>								
Norris Basin *	10E2	7500	2/27	30	7.1	14.1	8.4	9.0a
21 Mile ^m	11E6	7150	2/26	43	12.7	27.0	14.1	15.8
West Yellowstone ^m	11E7	6700	2/26	27	7.0	15.0	8.3	10.6
<u>UPPER YELLOWSTONE - YELLOWSTONE PARK</u>								
Canyon	10E3	7750	2/27	39	9.8	23.4	12.4	13.1
Crevice Mountain	10D5	8400	2/28	27	6.0	11.8	8.1	7.5
East Entrance #2 *	9E5MP	7000	3/1	35	7.3			
Lake Camp #1	10E4	7850	2/28	32	6.2	14.4	7.1	
Lake Camp #2	10E4	7850	2/28	29	5.5	13.2	6.3	9.0
Lupine Creek	10E1	7300	3/1	33	7.5	14.2	8.2	9.5
Norris Basin *	10E2	7500	2/27	30	7.1	14.1	8.4	9.0a
Northeast Entrance	10D7MP	7400	2/28	22	5.0	13.1	7.4	7.5
Parker's Peak	9E7A	9400	No Report			48.0e		
Pitchstone Plateau	10E16A	8640	Delayed			59.0e		
Sylvan Pass *	10E5	7100	3/1	40	8.7	16.8	10.0	12.6
Thumb Divide *	10E7	7900	2/26	51	17.1	29.3	14.0	20.0a
Two Ocean Plateau	10E17A	9200	Delayed			38.5e		
<u>LOWER YELLOWSTONE - CLARK'S FORK</u>								
Lodgepole	9E1	8200	2/27	24	5.5	9.9	9.1	8.6*
Parker's Peak	9E7A	9400	No Report			48.0e		
<u>LOWER YELLOWSTONE - WIND RIVER</u>								
Big Warm	9F12	8800	2/24	21	4.4	10.8	4.8	7.0*
Burroughs Creek	9F4	8800	2/26	30	7.9	20.6	8.7	12.5*
Dinwoodie	9F10	10000	2/27	22	5.0	13.5	6.6	10.4*
Dinwoodie Glaciers	9F17A	10500	2/26	23A	5.0e	24.5e	7.5e	8.9*
Dry Creek	9F9	9500	2/27	14	2.8	7.1	4.1	5.5*
DuNoir	9F6	8750	2/24	20	4.1	10.2	4.7	6.9
Geyser Creek	9F7	8500	2/25	17	2.7	9.3	4.3	6.6*
Little Warm	9F8	9500	2/25	34	8.5	18.5	10.5	14.3*
Sheridan R.S. #2	9F14	7500	2/24	20	4.0	8.7	3.8	5.6*
T-Cross Ranch	9F3	8000	2/26	19	4.6	11.5	4.0	6.0
Togwotee Pass *	10F9MP	9600	2/25	57	17.5	33.5	22.1	25.0*
Twenty Lakes *	9G7A	10000	2/26	21A	4.5e	16.0e	6.0e	5.6*a

WYOMING SNOW SURVEYS - ABOUT MARCH 1, 1966

Drainage Basin and Snow Course	Number or State	Elev.	SNOW COVER MEASUREMENTS					
			Date of Survey	1966		PAST RECORD		
				Snow Depth (In.)	Water Content (In.)	Water Content (In.)		1948-62 Average
						1965	1964	
<u>LOWER YELLOWSTONE - OWL CREEK</u>								
Kirwin *	9F19A	11000	No Report			N.R.	N.R.	7.1*a
Owl Creek	8F1	8700	2/23	10	1.7	5.9	N.R.	4.8*
<u>LOWER YELLOWSTONE - POPO AGIE RIVER</u>								
Blue Ridge	8G2	9500	3/4	41	8.1	19.3	9.2	10.4*
Bruce's Camp	8G5	6500	3/4	17	2.9	3.5	4.6	2.4*
Hobb's Park	9G3	10000	3/1	33	9.2	20.1	11.0	15.2*
Mosquito Park R.S.	9G4	9500	3/1	15	3.0	10.7	6.1	6.8a
Sawmill Glade	8G1	8500	3/4	27	4.5	10.0	8.1	6.6
South Pass *	8G3MP	9000	3/3	54	10.4	21.3	9.3	12.3
St. Lawrence R.S.	9F11	9000	2/28	18	4.0	10.6	5.3	5.8a
Trout Creek	9G2	8400	3/1	16	3.0	5.1	4.9	5.1*
Twenty Lakes *	9G7A	10000	2/26	21A	4.5e	16.0e	6.0e	5.6*a
<u>LOWER YELLOWSTONE - GREYBULL RIVER</u>								
Absaroka Divide	9E6	10000	Delayed			N.R.	N.R.	
Kirwin *	9F19A	11000	No Report			N.R.	N.R.	7.1*a
Timber Creek #2	9E3	8800	2/25	4	0.8	3.5	2.7	2.7*
Wood River #2	9F15	8000	2/24	10	1.7	6.6	4.6	4.4*
<u>LOWER YELLOWSTONE - SHOSHONE RIVER</u>								
Carter Mountain	9E4M	7800	2/28	6	0.8	5.1	2.8	3.7*
East Entrance #2 *	9E5	7000	3/1	35	7.3			
Sylvan Pass *	10E5	9200	3/1	40	8.7	16.8	10.2	12.6
Togwotee Pass	10F9MP	9600	2/25	57	17.5	33.5	22.1	25.0*
Younts Peak	9F18A	8500	Delayed			21.0e	N.R.	
<u>LOWER YELLOWSTONE - NOWOOD CREEK</u>								
Bear Trap *	7F1A	8000	2/26	15A	2.5e	13.0e	9.5e	7.4*
Cold Springs Camp #1	7E25	8700	3/1	14	2.5	10.9	6.6	6.3*
Cold Springs Camp #2	7E25	8700	3/1	20	3.2			
Medicine Lodge Lakes	7E24M	9500	3/1	23	3.9	16.9	9.7	9.7*
Middle Powder *	7F2	7400	3/2	23	3.8	13.7	9.4	9.6*
Munkres Pass *	7E8	9700	3/1	19	3.5	11.4	6.9	7.9*
Onion Gulch *	7E27M	8100	3/1	19	3.4	11.0	8.3	8.1*
Tyrell R.S.	7E25	8300	3/3	22	3.7	11.0	8.1	7.3*
West Tensleep Lake	7E26A	9075	3/3	29	5.2	18.0e	11.5e	10.4*a



WYOMING SNOW SURVEYS - ABOUT MARCH 1, 1966

Drainage Basin and Snow Course	Number or State	Elev.	SNOW COVER MEASUREMENTS					
			1966			PAST RECORD		
			Date of Survey	Snow Depth (In.)	Water Content (In.)	Water Content (In.)		
						1965	1964	1948-62 Average

LOWER YELLOWSTONE - SHELL CREEK

Bald Mountain *	7E21M	9600	2/24	49	11.4	24.8	20.5	16.9*
Beaver Tongue *	7E20	9200	2/24	45	10.0	24.3	16.5	15.6*
Bone Spring Divide *	7E18A	9200	2/26	44A	10.0e	21.5e	12.5e	12.4**
Granite Pass *	7E17	8950	2/26	33	7.0	18.2	13.5	13.5*
Ranger Creek #1	7E4	8800	2/26	20	3.4	14.6	9.4	7.7*
Ranger Creek #2	7E4	8800	2/26	20	3.3			
Shell Creek	7E23A	9600	2/26	30	6.1	21.5e	12.0e	12.2*

LOWER YELLOWSTONE - TONGUE RIVER

Beaver Tongue *	7E20	9200	2/24	45	10.0	24.3	16.5	15.6*
Big Goose #2	7E32M	7700	2/28	9	1.0	7.4	6.8	6.5*
Bone Spring Divide *	7E18A	9200	2/26	44A	10.0e	21.5e	12.5e	12.4**
Burgess R.S. #2	7E33P	7900	2/25	11	1.5	9.7	9.9	6.8*
Dome Lake #2	7E34A	8800	2/26	14A	2.5e	12.5e	8.5e	8.0**
Geneva Pass	7E37A	10600	2/26	33A	6.6e	23.0e	14.0e	15.0**
Gloom Creek	7E14A	9300	2/26	23A	4.3e	19.0e	15.5e	11.5**
Granite Pass *	7E17	8950	2/26	33	7.0	18.2	13.5	13.5*
North Tongue	7E15	8800	2/25	21	3.9	13.4	11.9	10.0*
Sibley Lake	7E11	8000	2/27	15	2.4	12.7	12.6	8.7*
Steamboat Point	7E10	7500	2/27	11	1.7	9.6	9.6	6.3*
Sucker Creek	7E12A	9000	2/26	20A	3.6e	17.0e	14.5e	10.5**
Wood Rock G.S.	7E13	8500	2/27	17	2.4	13.7	9.5	8.8*

LOWER YELLOWSTONE - PORCUPINE CREEK

Five Springs Falls	7E31	7500	2/28	14	3.4	10.6	8.2	5.3*
Medicine Wheel	7E30	9000	2/25	35	7.4	19.4	15.5	13.3*

LOWER YELLOWSTONE - POWDER RIVER

Bear Trap *	7F1A	8000	2/26	15A	2.5e	13.0e	9.5e	7.4*
Clouds Peak	7E36A	10000	2/26	15A	2.5e	14.0e	9.5e	10.3**
Middle Powder *	7F2	7400	3/2	23	3.8	13.7	9.4	9.6*
Muddy Creek G.S.	6E2	7500	3/1	11	1.7	3.5	2.4	4.1*
Munkres Pass *	7E8	9700	3/1	19	3.5	11.4	6.9	7.9*
Onion Gulch *	7E27M	8100	3/1	19	3.4	11.0	8.3	8.1*
Soldier Park	7E5	8700	2/28	12	1.7	7.4	4.1	4.3*
Sour Dough	6E1	8500	3/2	24	3.3	6.1	5.3	6.6*

WYOMING SNOW SURVEYS - ABOUT MARCH 1, 1966

Drainage Basin and Snow Course	Number or State	Elev.	SNOW COVER MEASUREMENTS					
			Date of Survey	1966		PAST RECORD		
				Snow Depth (In.)	Water Content (In.)	Water Content (In.)		
						1965	1964	1948-62 Average

NORTH PLATTE - LARAMIE RIVER

Albany *	6H11A	9400	2/23	38A	11.0e	14.1	12.0e	12.3*a
Brooklyn Lake #2	6H1MP	10200	3/3	47	14.1	22.5	13.2	18.9a
Cameron Pass ^C *	5J1	10300	2/24	48	15.2	20.5e	19.1	19.2
Chambers Lake ^C	5J2	9000	2/26	17	4.3	10.2	4.8	7.8
Deadman Hill ^C	5J6	10300	2/23	46A	12.0e	15.2e	13.0	12.9
Evans *	6H15	9000	2/24	29	6.3	12.1	7.1	8.9*
Foxpark *	6H12P	9200	2/28	19	4.4	8.6	5.6	5.6
Hairpin Turn #3	6H2	9500	3/3	33	8.0	15.2	9.3	13.5a
LaBonte *	5G2	8450	2/27	16	3.6	5.4	5.0	5.1*
Libby Lodge #1	6H3	8700	3/3	26	5.8	10.7	6.3	9.4
Libby Lodge #2	6H3	8700	3/3	24	5.9			
Lost Lake ^C	5J23	9300	2/26	24	5.9	12.2	6.4	10.8a
Pole Mountain #2 *	5H1	8700	3/2	18	3.7	5.9	4.1	4.3
Roach ^C *	6J12A	9800	2/23	39A	10.5e	18.6e	7.9	16.2
Rock Creek #1 *	6H14	9800	3/1	61	17.8	20.1	21.2	19.8*a
Rock Creek #2 *	6H14	9800	3/1	52	14.7			

NORTH PLATTE - ABOVE SEMINOLE RESERVOIR

Albany *	6H11A	9400	2/23	38A	11.0e	14.1	12.0e	12.3*a
Black Hall Mtn.	6H18		2/27	32	8.1			
Bottle Creek #1	6H8	8200	2/25	29	8.0	15.8	8.7	12.5
Bottle Creek #2	6H8	8200	2/25	34	9.6			
Boxelder #2 *	5G1	7500	2/28	16	4.6	6.8	8.0	5.6*
Cameron Pass ^C *	5J1	10300	2/24	48	15.2	20.5e	19.1	19.2
Casper Mountain *	6G1MP	7940	3/2	39	9.6	11.2	11.6	10.2*
Columbine ^C	6J3	9300	2/25	50	14.0	25.3	14.1	20.5
Deep Lake	6H17	10500	3/1	89	30.2	34.1		
Evans *	6H15	9000	2/24	29	6.3	12.1	7.1	8.9*
Foxpark *	6H12P	9200	2/28	19	4.4	8.6	5.6	5.6
LaBonte *	5G2	8450	2/27	16	3.6	5.4	5.0	5.1*
Moss Lake	6H16	9800	3/1	66	16.4	21.7		
North Barrett Creek	6H5AM	9400	2/23	54A	15.0e	17.5	19.0e	15.5*a
North French Creek	6H4AP	10200	2/23	63A	18.0e	28.6	27.3e	23.3*a
Northgate ^C	6J7	8500	2/24	19	3.9	6.6	4.0	5.6*
Old Battle #1 *	6H10P	9800	2/25	61	20.4	31.0	18.0	24.0
Old Battle #2 *	6H10P	9800	2/25	68	24.9			
Park View ^C *	6J2	9200	2/25	27	6.3	10.6	5.2	7.9
Roach ^C *	6J12A	9800	2/23	39A	10.5e	18.6e	7.9	16.2
Rock Creek #1 *	6H14	9800	3/1	61	17.8	20.1	21.2	19.8*a
Rock Creek #2 *	6H14	9800	3/1	52	14.7			

WYOMING SNOW SURVEYS - ABOUT MARCH 1, 1966

Drainage Basin and Snow Course	Number or State	Elev.	SNOW COVER MEASUREMENTS					
			Date of Survey	1966		PAST RECORD		
				Snow Depth (In.)	Water Content (In.)	Water Content (In.)		
						1965	1964	1948-62 Average
<u>NORTH PLATTE - ABOVE SEMINOLE RESERVOIR, CON'T.</u>								
Ryan Park	6H6A	8400	2/23	26A	8.0e	13.5	6.0e	9.3*a
Spring Creek	6H19							
Webber Springs #1	6H9M	9000	2/24	37	11.2	19.1e	10.4	15.3
Webber Springs #2	6H9M	9000	2/24	44	13.4			
Willow Creek Pass ^C	6J5	9500	2/25	34	8.9	11.9	6.4	11.0
<u>NORTH PLATTE - CROW CREEK</u>								
Pole Mountain #2	5H1	8700	3/2	18	3.7	5.9	4.1	4.3
<u>NORTH PLATTE - SWEETWATER</u>								
Grannier Meadows	8G4	9000	3/3	49	9.8	21.0	9.6	12.3
Larsen Creek	9G6A	9000	2/26	36A	7.7e	18.0e	6.0e	10.1*
South Pass	8G3MP	9000	3/3	54	10.4	21.3	9.3	12.3
<u>NORTH LARAMIE MOUNTAINS</u>								
Boxelder #2	5G1	7500	2/28	16	4.6	6.8	8.0	5.6*
Casper Mountain	6G1MP	7940	3/2	39	9.6	11.2	11.6	10.2*
LaBonte	5G2	8450	2/27	16	3.6	5.4	5.0	5.1*
<u>GREEN RIVER ABOVE GREEN RIVER</u>								
Big Sandy Opening	9G9P	9220	3/1	39	8.4	17.1	8.4	10.4*
Blind Bull Summit	10G2A	8750	3/3	60A	17.0e	34.0e	16.5e	26.6*a
Dutch Joe R.S.	9G5	8700	3/1	31	6.0	14.6	6.7	7.7*
East Rim Divide	10F17MP	7950	2/28	27	6.3	16.6	7.4	10.0
Elk Heart Park G.S.	9F23P	9400	2/28	35	6.9	19.9	9.7	12.1*
Gros Ventre Summit	10F19A	8750	3/3	41A	10.5e	19.0e	8.0e	11.1a
Kendall R.S. #2	10F15	7900	3/1	33	7.0	16.2	7.9	11.8*
Loomis Park #2	10F16	8500	2/28	42	10.6	26.4	12.2	12.6*
Mulligan Park	9G1	8900	2/28	30	5.7	13.4	7.6	9.2*
New Fork Lake	9F21	8325	3/1	31	6.2	15.6	8.4	
North Horse Creek	10G16	8200	2/28	52	14.3	30.7	15.0	19.4*
Piney LaBarge #2	10G10	8820	2/26	42	12.3	32.7	16.1	17.8
Pocket Creek	9G11	9360	3/1	35	7.7	14.1	7.9	
Poison Meadows	10G6A	8500	2/26	59	17.1	42.0e	19.0e	24.4a
Snyder Basin #2	10G13MP	8040	2/26	37	9.8	24.3	12.0	13.9*
Soda Lake	10G14	8300	2/27	42	11.7	26.0	11.1	16.3*
South Pass	8G3MP	9000	3/3	54	10.4	21.3	9.3	12.3
Triple Peaks	10G15	8500	2/27	56	17.6	36.1	17.4	21.7

WYOMING SNOW SURVEYS - ABOUT MARCH 1, 1966

Drainage Basin and Snow Course	Number or State	Elev.	SNOW COVER MEASUREMENTS					
			1966			PAST RECORD		
			Date of Survey	Snow Depth (In.)	Water Content (In.)	Water Content (In.)		1948-62 Average
						1965	1964	
<u>GREEN RIVER BELOW GREEN RIVER</u>								
Big Park *	10G11A	8700	2/25	44	13.3	27.4	14.1	17.5*a
Black's Fork Junction ^u	10J22	8925	2/16	27	6.0	14.4	5.2	
Buck Pasture ^u	10J23A	9700	Delayed			21.0e	8.0e	
East Fk. Black's Fk. ^u	10J21	9300	2/16	23	5.6	13.4	6.6	
Elk River ^c	6J4	8700	2/22	46A	12.4e	22.4	15.1e	15.9
Henry's Fork ^u	10J24A	10200	Delayed			19.0e	8.1e	
Hewinta G.S. ^u	10J4	9500	2/17	27	5.8	12.5	5.7	7.5*
Hickerson Park ^u	9J8	9100	2/24	18	3.3	6.7	4.5	
Kelly R.S.	10G12	8200	2/25	43	12.0	25.3	13.6	18.7*
Lake Fork Basin ^u	10J25A	11100	Delayed			24.0e	13.8	
Old Battle #1 *	6H10P	9800	2/25	61	20.4	31.0	18.0	24.0
Old Battle #2 *	6H10P	9800	2/25	68	25.0			
Steel Creek Park ^u	10J20A	9900	2/17	43	9.9	19.4	9.4	
<u>JACKSON LAKE TO PALISADES</u>								
Afton R.S.	10G4	6200	2/24	18	4.6	4.4	4.9	4.7
Base Camp *	10F2	6900	2/25	46	14.6	26.9	15.2	16.7a
Blackrock *	10F7	8600	2/25	37	12.7	24.5	16.8	18.5*
Blind Bull Summit *	10G2A	8750	3/3	60A	17.0e	34.0e	16.5e	26.6*a
Bryan Flat	10F14	6250	3/2	35	8.5	13.4	5.8	9.1
CCC Camp *	10G7	7500	2/24	32	8.1	16.3	9.6	10.4
Cottonwood Lake	10G5A	7500	2/26	41A	11.0e	26.0e	15.0e	15.6*
East Rim Divide *	10F17MP	7950	2/28	27	6.3	16.6	7.4	10.0
Four Mile Meadows	10F6	7770	2/25	35	8.6	14.0	11.8	11.5*
Greys Boundary	10F18	5800	2/24	32	8.1	10.8	11.6	10.8
Gros Ventre Summit *	10F19A	8750	3/3	41A	10.5e	19.0e	8.0e	11.1a
Grover Park Divide	10G3	7500	2/25	30	7.8	13.6	9.0	10.4
Loomis Park #2 *	10F16	8500	2/28	42	10.6	26.4	12.2	12.6*
Poison Meadows *	10G6A	8500	2/26	59	17.1	42.0e	19.0e	24.4
Salt River Summit *	10G8P	7900	2/24	41	12.0	22.1	12.5	13.3
Snow King Mtn. #3	10F20M	7600	3/1	41	10.2	16.5	10.0	12.5*
Teton Pass #2	10F13	8500	2/25	53	17.2	38.6	26.6	30.1*
Togwotee Pass *	10F9MP	9600	2/25	57	17.5	33.5	22.1	25.0*
Turpin Meadows	10F5	6930	2/25	28	6.8	12.4	9.6	10.0*
Young's Ranch	10G1A	6534	3/3	42A	11.0e	25.0e		

WYOMING SNOW SURVEYS - ABOUT MARCH 1, 1966

Drainage Basin and Snow Course	Number or State	Elev.	SNOW COVER MEASUREMENTS					
			Date of Survey	1966 Snow Depth (In.)	Water Content (In.)	PAST RECORD		
						Water Content (In.)		
						1965	1964	1948-62 Average
<u>SNAKE RIVER ABOVE JACKSON LAKE</u>								
Arizona	10F1	6850	2/26	45	13.6	22.2	14.0	16.8a
Astor Creek	10E8	7700	2/26	66	23.5	37.9	18.3	28.3a
Base Camp	10F2	6900	2/25	46	14.6	26.9	15.2	16.7a
Coulter Creek	10E10	7600	2/28	55	16.3	25.3	16.4	20.6a
Glade Creek	10E13	7200	2/27	57	16.3	25.0	15.1	19.9a
Grassy Lake	10E15MP	7265	2/27	79	25.4	38.5	24.4	30.4
Huckleberry Divide	10E14	7300	2/26	48	15.5	22.7	14.5	17.5a
Lewis Lake Divide	10E9	7900	2/26	81	30.1	48.8	26.8	38.1a
Moran	10F4MP	6500	2/27	38	9.6	15.8	10.1	11.4a
Moran Bay	10F3	6800	2/27	54	16.0	23.7	16.7	19.1a
Pitchstone Plateau	10E16A	8640	Delayed			59.0e		
Snake River Station	10E12MP	6780	2/26	48	15.1	23.8	15.0	18.6a
Thumb Divide †	10E7	7900	2/26	51	17.1	29.3	14.0	20.0a
Two Ocean Plateau	10E17A	9200	Delayed			38.5e		

BEAR RIVER

Big Park †	10G11A	8700	2/25	44	13.3	27.4	14.1	17.5*a
CCC Camp †	10G7	7500	2/24	32	8.1	16.3	9.6	10.4
Kelly R.S.	10G12	8200	2/25	43	12.0	25.3	13.6	18.7*
Monte Cristo ^u	11H12	8960	2/25	60	22.4	26.9	14.5	21.5*
Poison Meadows †	10G6A	8500	2/26	59	17.1	42.0e	19.0e	24.4a
Salt River Summit †	10G8MP	7900	2/24	41	12.0	22.1	12.5	13.3
Trial Lake ^u	10J8P	9800	2/24	58	17.4	35.7	12.1	23.0*

MISSOURI - CHEYENNE RIVER

Upper Spearfish ^s	3E1	6500	2/28	16	2.8	7.0	8.8	5.7
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MISSOURI - BELLE FOURCHE

Bearlodge Divide	4E2P	4580	3/2	9	1.4	N.R.	4.3	
Warren Peak	4E1P	6400	3/2	18	4.1	12.3	9.0	

- c Colorado snow courses.
 m Montana snow courses.
 s South Dakota snow courses.
 u Utah snow courses.
 * Average does not contain
 15 years of record.

- † Located close to divide.
 M Soil moisture stack.
 P Pearson precipitation gage.
 A Aerial stadia marker,
 water content estimated.
 a Average partially estimated.



WYOMING MOUNTAIN PRECIPITATION FOR FEBRUARY 1966

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Drainage Basin and Precipitation Gage	Elevation	Date of Survey	1966 Precip. (In.)	1965 Precip. (In.)	1948-62 Average
<u>UPPER YELLOWSTONE RIVER</u>					
Lake Camp	7850	2/28	0.9	0.8	
Northeast Entrance	7400	2/28	1.2	1.1	
<u>LOWER YELLOWSTONE RIVER</u>					
Burgess Junction	7900	2/28	0.5	0.8	
Dennison Mountain *		No Report		0.2	
Powder River Pass *	9400	3/4	1.4	1.5	
South Pass *	9000	3/3	1.2	0.4	
Togwotee Pass *	9600	2/25	2.4	3.4	
<u>NORTH PLATTE</u>					
Brooklyn Lake #2 *	10200	3/3	2.6	1.4	
Casper Mountain *	7940	2/28	2.7	1.7	
Foxpark	9200	3/1	0.5	0.2	
North French Creek	10200	No Report		---	
Old Battle *	9800	2/25	3.6	6.5	
Pole Mountain #2 *	8700	3/2	1.0	1.1	
Rock Creek *	9800	3/1	3.4	---	
South Pass *	9000	3/3	1.2	0.4	
<u>GREEN RIVER</u>					
Big Sandy Opening *	9220	3/1	1.2	1.2	
East Rim Divide *	7950	2/28	0.6	0.1	
Elk Heart Park *	9400	2/28	0.8	0.9	
Snyder Basin *	8040	2/26	1.1	0.8	
South Pass *	9000	3/3	1.2	0.4	
<u>SNAKE RIVER</u>					
East Rim Divide *	7950	2/28	0.6	0.1	
Grassy Lake *	7265	2/27	4.9	5.4	
Lewis Lake *	7900	2/26	3.8	6.4	
Moran	6500	3/1	1.3	1.1	
Salt River Summit *	7900	2/24	2.0	3.4	
Snake River Station	6780	2/26	2.0	4.0	
Togwotee Pass *	9600	2/25	2.4	3.4	
<u>BEAR RIVER</u>					
Kelly R.S. *	8200	2/25	1.7	1.5	
Salt River Summit *	7900	2/24	2.0	3.4	
<u>BELLE FOURCHE</u>					
Bear Lodge Divide	4580	3/1	1.0	0.6	
Warren Peak	6400	3/2	0.7	N.R.	
* Soil Conservation Service Pearson Precipitation Gage.					

STATUS OF RESERVOIR STORAGE -- MARCH 1, 1966

BASIN and/or STREAM	RESERVOIR	USABLE CAPACITY 1000's AF	USABLE STORAGE -- 1000 Acre Feet			
			1966	1965	1964	Average 1948-62
Snake River	Jackson	847.0	696.5	555.8	631.1	417.3
Snake River	Palisades ⁱ	1,202.0	1017.6	989.0	912.0	513.4*
North Platte	Seminole	1,011.6	399.3	160.4	222.0	435.3
North Platte	Pathfinder	1,015.0	469.3	111.3	145.0	521.2
North Platte	Alcova	30.3	-2.3	-3.5	-4.1	-1.2
North Platte	Guernsey	44.8	7.3	5.6	6.5	30.5
North Platte	Glendo	786.3	370.3	343.5	348.2	272.4*
Kansas Basin	Bonny ^c	39.9	38.1	40.8	40.1	38.4*
Kansas Basin	Swanson Lake ⁿ	116.1	106.7	91.6	102.8	80.2*
Kansas Basin	Enders ⁿ	36.0	34.2	36.1	28.2	34.6*
Kansas Basin	Harry Strunk ⁿ	33.9	27.6	34.6	35.4	29.2*
Kansas Basin	Harlan County ⁿ	252.9	207.4	227.5	253.1	168.2*
Kansas Basin	Cedar Bluff ^k	176.8	151.5	159.8	170.4	147.0*
Laramie River	Wheatland	95.0	N.R.	N.R.	17.9	26.5* ^a
Belle Fourche	Bell Fourche ^s	185.2	152.1	140.5	133.0	70.6
Belle Fourche	Keyhole	330.7	125.9	120.3	70.8	22.1
Shoshone River	Buffalo Bill	373.1	269.7	143.5	151.1	144.2
Wind River	Boysen	700.3	320.3	296.4	294.8	221.4
Wind River	Pilot Butte	31.6	17.9	14.1	15.9	12.6
Wind River	Bull Lake	151.7	99.0	85.6	102.5	61.8
Wind River	Sunshine	52.0	46.5	25.8	39.1	
Big Horn	Anchor	17.3	-0.2	-0.2		
Cheyenne River	Angostura ^s	90.2	80.0	56.7	69.7	42.4*
Cheyenne River	Deerfield ^s	15.1	15.1	14.6	14.2	9.7*
Grand River	Shadehill ^s	299.2	38.3	37.0	30.3	60.7
Green River	Big Sandy	38.3	35.8	7.2	12.0	9.3* ^a
Rapid Creek	Pactola ^s	98.0	54.1	54.3	54.1	26.4*

* Average is for less than 15 years of record in the 1948-62 period.

c Located in Colorado
k Located in Kansas
n Located in Nebraska

s Located in South Dakota
i Located in Idaho

Agencies Cooperating in Wyoming Snow Surveys

FEDERAL

U.S. Department of Agriculture
Forest Service
Soil Conservation Service

U.S. Department of Commerce
Weather Bureau

U.S. Department of Interior
Bureau of Reclamation
Geological Survey
National Park Service
Indian Service

STATE

State Engineer of Wyoming

University of Wyoming
Natural Resources Research Institute
Department of Agricultural Engineering

PRIVATE

Irrigation Districts
Greybull Valley Irrig. Dist.
Wheatland Irrig. Dist.

Soil and Water Conservation Districts
Bridger Valley SWCD
Clouds Peak SWCD
Cody SWCD
Dubois-Crowheart SWCD
Greybull Valley SWCD
Lake DeSmet SWCD
Laramie Rivers SWCD
Little Snake River SWCD
Medicine Bow SWCD
Pavillion and Wind River SWCD
Pinedale SWCD
Powder River SWCD
Powell-Clarks Fork SWCD
S and E SWCD
Shell Valley SWCD
Shoshone SWCD
Tongue River SWCD
Washakie SWCD
Wheatland SWCD

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